TEJUS
CONSULTANTS

Test Report on Compressive strength of Solid Block

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

SLNo.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	19-11-2020	20-11-2020	80000	409.00	5.11	5.09	5.00
2	19-11-2020	20-11-2020	80000	405.00	5.06		
3	19-11-2020	20-11-2020	80000	408.00	5.10		

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

A.E.E. (Project)

Authorised Signatory

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Test Report on Compressive strength of Solid Block

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
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Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	25-11-2020	26-11-2020	80000	408.00	5.10	5.06	5.00
2	25-11-2020	26-11-2020	80000	402.00	5.03		
3	25-11-2020	26-11-2020	80000	405.00	5.06		

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. P Hemanth (SOORYA CREATERS)				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	3rd cross,Rachenahalli		Date of Sampling	02-12-2020	
			Date of Testing	03-12-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	518	518	5.18	94.82	90-100
10.0	4596	5114	51.14	48.86	40-85
4.75	4542	9656	96.56	3.44	0-10
Pan	344	10000			

Remarks : Satisfactory / Not Satisfactory

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A.E.E (Project)

TEJUS CONSULTANTS
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TEST REPORT

TEJUS CONSULTANTS

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	3rd cross,Rachenahalli	Date of Sampling	02-12-2020
		Date of Testing	03-12-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	269	269	2.69	97.31	95 - 100
10.00 mm	4849	5118	51.18	48.82	25 - 55
4.75 mm	4242	9360	93.60	6.40	0 - 10
Pan	640	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Sample Location	3rd cross,Rachenahalli	Date of Sampling	02-12-2020
		Date of Testing	03-12-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	232	232	7.73	92.27	90 - 100
2.36 mm	324	556	18.53	81.47	75 - 100
1.18 mm	442	998	33.27	66.73	55 - 90
0.600 mm	497	1495	49.83	50.17	35 -59
0.300 mm	725	2220	74.00	26.00	8-30
0.150 mm	646	2866	95.53	4.47	0 - 10
Pan	134	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	3rd cross,Rachenahalli	Date of Sampling	02-12-2020
Period of Soaking	24 hours	Date of Testing	03-12-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	656	648	657	
B	Weight of oven - dry sample gm.	641	644	653	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1683	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.574	2.683	2.698	2.652
G	Absorption (%) $\frac{(A-B)*100}{B}$	2.340	0.621	0.613	1.191

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TEJUS CONSULTANTS

Authorised Signatory

A.E.E. (Project)

Test Report on Cement

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	02-12-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	117 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	554 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	8 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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TEJUS CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Name of Work	:	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
No of Sample Tested	:	3
Date of Testing	:	15-12-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20_100mm thick

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.466	2637.02	1.80	0.960	39.56	20.15	21.76	20.89	26.11
2	50.00	90.00	0.462	2614.39	1.80	0.960	39.45	20.09	21.70	20.83	26.04
3	50.00	90.00	0.452	2557.80	1.80	0.960	39.53	20.13	21.74	20.87	26.09

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A.E.E. (Project)

TEJUS CONSULTANTS

Consultant's Representative

TEJUS CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Name of Work	:	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
No of Sample Tested	:	3
Date of Testing	:	15-12-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20_100mm thick

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Consultant's Representative

TEJUS
CONSULTANTS

KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
No.of Sample Tested	:	3
Date of Testing	:	21-12-2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.395	2366.73	1.70	0.960	29.69	15.12	16.33	15.68	19.60
2	50.00	85.00	0.386	2312.80	1.70	0.960	29.67	15.11	16.32	15.67	19.58
3	50.00	85.00	0.383	2294.83	1.70	0.960	29.58	15.06	16.27	15.62	19.52

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KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
No.of Sample Tested	:	3
Date of Testing	:	21-12-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
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Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
No.of Sample Tested	:	3
Date of Testing	:	23-12-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.375	2246.89	1.70	0.960	29.52	15.03	16.24	15.59	19.48
2	50.00	85.00	0.392	2348.75	1.70	0.960	29.50	15.02	16.23	15.58	19.47
3	50.00	85.00	0.384	2300.82	1.70	0.960	29.62	15.09	16.29	15.64	19.55

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